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Nucleotide

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Search PubMed

for Kluyveromyces AND reductase * **Limits**

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Privacy Policy

• S	earch History	will be	lost after	eight ho	urs of inactivity.
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- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.

Search	Most Recent Queries	Time	Result
	Search Kluyveromyces AND reductase Field: Title/Abstract	16:15:47	<u>9</u>
#37	Search Kluyveromyces AND enone Field: Title/Abstract	16:15:41	<u>0</u>
#36	Search enone AND reductase Field: Title/Abstract	16:15:28	4
#33	Search enone reductase Field: Title/Abstract	16:14:28	<u>4</u>
#32	Search Kluyveromyces AND enzyme AND (enone or ketone or carbon) Field: Title/Abstract	16:13:50	<u>15</u>
#31	Search Kluyveromyces AND reductase AND (enone or ketone or carbon) Field: Title/Abstract	16:13:20	0

Clear History

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Jan 29 2004 15:06:34



results of DLAST

BLASTP 2.2.8 [Jan-05-2004]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1076620068-13214-9170067263.BLASTQ3

Query=

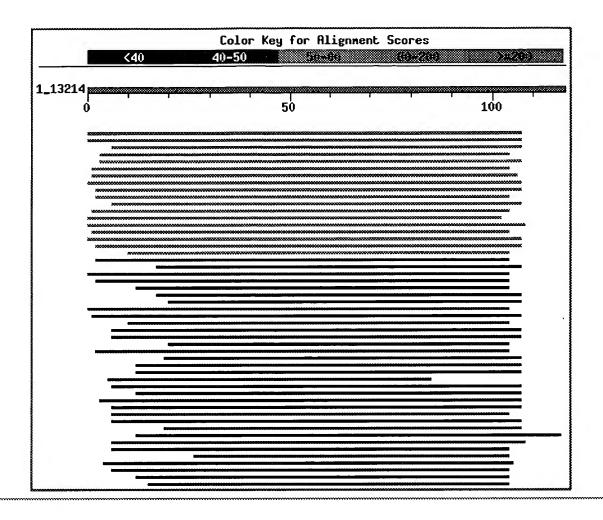
(118 letters)

If you have any problems or questions with the results of this search please refer to the BLAST FAOS

Taxonomy reports

Distribution of 100 Blast Hits on the Query Sequence

Mouse-over to show defline and scores. Click to show alignments



Sequences producing significant alignments:	Score (bits)	E Value
qi 6324195 ref NP 014265.1 Ynl134cp [Saccharomyces cerevis qi 6323493 ref NP 013565.1 Hypothetical ORF; Ylr460cp [Sac qi 6319945 ref NP 010026.1 Hypothetical ORF; Ycr102cp [Sac qi 40741495 qb EAA60685.1 hypothetical protein AN8651.2 [A qi 1729996 sp P54006 TOND COCCA TOXD protein >gi 1027511 em qi 38111915 qb EAA57410.1 hypothetical protein MG08380.4 [qi 38111928 qb EAA57421.1 hypothetical protein MG08391.4 [qi 38106089 qb EAA52440.1 hypothetical protein MG05132.4 [qi 38105395 qb EAA51829.1 hypothetical protein MG03424.4 [135 134 127 96 77 68 63 61 59	1e-31 3e-31 4e-29 1e-19 7e-14 3e-11 1e-09 3e-09 2e-08 5e-08

Alignments

```
Length = 376
```

```
Score = 135 bits (341), Expect = 1e-31
Identities = 65/109 (59%), Positives = 82/109 (75%), Gaps = 1/109 (0%)
```

Query: 1 SVPTTQKAVIIEGDKAVVKTDVSVPELKEGTALVKVEAVAGNPTDWKHIAYKIGPEGSIL 60 S+P T KAV+IE KAVVK D+ +PEL+EG L+K AVAGNPTDWKHI +KIGP+G++L

Sbjct: 4 SIPETMKAVVIENGKAVVKQDIPIPELEEGFVLIKTVAVAGNPTDWKHIDFKIGPQGALL 63

Query: 61 GCDIAGTVVKLGPNA-STDLKVGDTGFGFVHGASQTDPKNGAFAEYARV 108 GCD AG +VKLGPN + +GD +G +HGAS P NGAFAEY+ +

sbjct: 64 GCDAAGQIVKLGPNVDAARFAIGDYIYGVIHGASVRFPSNGAFAEYSAI 112

Score = 134 bits (337), Expect = 3e-31Identities = 65/109 (59%), Positives = 81/109 (74%), Gaps = 1/109 (0%)

Query: 1 SVPTTQKAVIIEGDKAVVKTDVSVPELKEGTALVKVEAVAGNPTDWKHIAYKIGPEGSIL 60 ++P T KAV+IE KAVVK + +PEL+EG L+K AVAGNPTDW HI YKIGP+GSIL

Sbjct: 4 AIPETMKAVVIEDGKAVVKEGIPIPELEEGFVLIKTLAVAGNPTDWAHIDYKIGPQGSIL 63

Query: 61 GCDIAGTVVKLGPNAS-TDLKVGDTGFGFVHGASQTDPKNGAFAEYARV 108 GCD AG +VKLGP + D +GD +GF+HG+S P NGAFAEY+ + Sbjct: 64 GCDAAGQIVKLGPAVNPKDFSIGDYIYGFIHGSSVRFPSNGAFAEYSAI 112

Score = 127 bits (319), Expect = 4e-29Identities = 63/103 (61%), Positives = 76/103 (73%), Gaps = 1/103 (0%)

Query: 7 KAVIIEGDKAVVKTDVSVPELKEGTALVKVEAVAGNPTDWKHIAYKIGPEGSILGCDIAG 66 KAV+IE KAVVK V +PEL+EG L+K AVAGNPTDW HI YK+GP+GSILGCD AG Sbjct: 2 KAVVIEDGKAVVKEGVPIPELEEGFVLIKTLAVAGNPTDWAHIDYKVGPQGSILGCDAAG 61

Query: 67 TVVKLGPNAS-TDLKVGDTGFGFVHGASQTDPKNGAFAEYARV 108 +VKLGP D +GD +GF+HG+S P NGAFAEY+ + Sbjct: 62 QIVKLGPAVDPKDFSIGDYIYGFIHGSSVRFPSNGAFAEYSAI 104

 $\frac{1.5gi|40741495|gb|EAA60685.1|}{1.5gi|40741495|gb|EAA60685.1|}$ hypothetical protein AN8651.2 [Aspergillus nidulans Length = 566

Score = 95.9 bits (237), Expect = 1e-19 Identities = 52/103 (50%), Positives = 68/103 (66%), Gaps = 2/103 (1%)

```
TTQKAVIIEGDK-AVVKTDVSVPELKEGTALVKVEAVAGNPTDWKHIAYKIGPEGSILGC 62
Query: 4
          +TOKAV+I K + TD +P L++ LVK AVA NPTDWKHIAY + P G ++GC
          STQKAVVITSPKQGGLVTDRPIPALRDDYILVKNVAVALNPTDWKHIAY-LAPPGVLVGC 60
Sbjct: 2
Query: 63 DIAGTVVKLGPNASTDLKVGDTGFGFVHGASQTDPKNGAFAEY 105
          D AG V ++G N K GD
                                 GF+HG++Q P++GAFAEY
Sbjct: 61 DYAGIVEEVGKNVKKPFKKGDRIAGFIHGSNQVQPEDGAFAEY 103
>gi|1729996|sp|P54006|TOXD_COCCA
                                    TOXD protein
gi]1027511|emb|CAA63129.1| toxD [Cochliobolus carbonum]
         Length = 297
Score = 76.6 bits (187), Expect = 7e-14
Identities = 42/106 (39%), Positives = 62/106 (58%), Gaps = 2/106 (1%)
         TTOKAVIIEG-DKAVVKTDVSVPELKEGTALVKVEAVAGNPTDWKHIAYKIGPEGSILGC 62
Query: 4
                     +A + +D +P+L++
                                      LV+ +VA NPTDWKHI ++ P G ++GC
          TFQKAIVTEAPHRARLVSDRLIPKLRDDYILVRTVSVALNPTDWKHI-LRLSPPGCLVGC 60
Sbjct: 2
Query: 63 DIAGTVVKLGPNASTDLKVGDTGFGFVHGASQTDPKNGAFAEYARV 108
          D AG V ++G +
                          K GD
                                  GF HG +
                                             +G FAE
Sbjct: 61 DYAGIVEEVGRSVKKPFKKGDRVCGFAHGGNAVFSDDGTFAEVITV 106
| >gi|38111915|qb|EAA57410.1| hypothetical protein MG08380.4 [Magnaporthe grisea ]
         Length = 353
Score = 68.2 bits (165), Expect = 3e-11
 Identities = 43/107 (40%), Positives = 66/107 (61%), Gaps = 7/107 (6%)
          VPTTQKAVIIEGDKAVVKTD--VSVPELKEGTALVKVEAVAGNPTDWKHIAYKIGPE-GS 58
Query: 2
                                          LV+V+AVA NP D H Y+ P G+
          +P+ + A I++ DK +K D
                               +P+ +
Sbjct: 3 IPSARTA-IVQDDKGGLKIDRNAPMPQPRPNELLVQVKAVAINPCD--HKMYERFPTPGA 59
Query: 59 ILGCDIAGTVVKLGPNASTDLKVGDTGFGFVHGASQTDPKNGAFAEY 105
                                     G VHG++ + P++G FAEY
          + GCD AG VV+LG + T ++GD
Sbjct: 60 VDGCDFAGIVVQLGSDVKT-FQIGDRVCGAVHGSNPSRPESGTFAEY 105
                               hypothetical protein MG08391.4 [Magnaporthe grisea ?
>qi|38111928|qb|EAA57421.1|
         Length = 400
Score = 62.8 bits (151), Expect = 1e-09
 Identities = 42/110 (38%), Positives = 59/110 (53%), Gaps = 5/110 (4%)
          VPTTQKAVIIEGDKAVVKTD--VSVPELKEGTALVKVEAVAGNPTDWKHIAYKIGPEGSI 59
Query: 2
                               + +P L+ G LVK AVA NP D+K + +
          +P++ A+I D VK
Sbjct: 46 IPSSHTAIIQHDDAGGVKITPGLPLPVLEPGQVLVKTAAVALNPCDFK-MPQRFSQAGTY 104
Query: 60 LGCDIAGTVVKLGPNASTD--LKVGDTGFGFVHGASQTDPKNGAFAEYAR 107
           GCD AGTVV+L
                           + LKVGD F
                                          G + D +G+FAEY +
Sbjct: 105 NGCDYAGTVVQLTEEVEKNGLLKVGDRIFAACVGNNPHDKDSGSFAEYLK 154
```

```
hypothetical protein MG05132.4 [Magnaporthe grisea :
>qi|38106089|qb|EAA52440.1|
         Length = 361
 Score = 61.2 bits (147), Expect = 3e-09
 Identities = 42/111 (37%), Positives = 61/111 (54%), Gaps = 7/111 (6%)
          SVPTTQKAVIIEGDKAVVKTDVSVPELKEGTALVKVEAVAGNPTDWKHIAY---KIGPEG 57
Query: 1
                                          LVK AVA NPT+ H +
                          V
                               V P+L++
          AIPSKARALIKTQKGKVEVQTVPTPKLRDNYVLVKTTAVALNPTE-PHAVFDDDTVQP-G 59
Sbjct: 2
Query: 58 SILGCDIAGTVVKLGPNASTDLKVGDTGFGFVHGASQTDPKNGAFAEYARV 108
          S++GCD AG VV+ G N+
                                K GD
                                       G HG + + ++GAFAEY V
Sbict: 60 SLVGCDFAGVVVEAGDNSR--FKPGDRIAGMAHGGNAENMEDGAFAEYINV 108
| >gi|40747875|gb|EAA67031.1| hypothetical protein AN8409.2 [Aspergillus nidulans
         Length = 333
Score = 58.5 bits (140), Expect = 2e-08
Identities = 39/108 (36%), Positives = 57/108 (52%), Gaps = 4/108 (3%)
          PTTOKAVIIEGDKAVVKTDVSVPELKEGTALVKVEAVAGNPTDWKHIAYKIGPE-GSILG 61
Query: 3
          P Q A+ I + +
                              +P L++
                                       LV V+++A NP D K + ++ P G+ LG
Sbjct: 4
          PKQQTALKITPEGRIAAVSSPLPSLQDNELLVCVKSIALNPFDAK--SAEMSPTIGATLG 61
Query: 62 CDIAGTVVKLGPNAST-DLKVGDTGFGFVHGASQTDPKNGAFAEYARV 108
          CD AG +V G NA+ + +GD
                                    GVG+
                                               NGAFAEY V
Sbjct: 62 CDFAGKIVATGSNANDFNFSIGDRVCGCVFGNNPNRLDNGAFAEYVAV 109
| >gi|38105395|gb|EAA51829.1| hypothetical protein MG03424.4 [Magnaporthe grisea :
         Length = 350
Score = 57.4 bits (137), Expect = 5e-08
Identities = 40/104 (38%), Positives = 54/104 (51%), Gaps = 3/104 (2%)
Query: 3
          PTTOKAVII-EGDKAVVKTDVSVPELKEGTALVKVEAVAGNPTDWKHIAYKIGPEGSILG 61
          P TO +++ E D VV+ D
                                PL
                                         LV+V AV NP+D K
                                                               P+ +TLG
Sbjct: 6
         PATQPGLVVDEHDNVVVRADCPFPSLPADQVLVRVRAVGVNPSDTKMRGPFALPQ-AILG 64
Query: 62 CDIAGTVVKLGPNASTDLKVGDTGFGFVHGASQTDPKNGAFAEY 105
                                  G +
           D AG VV +G
                         D+ VGD
                                          + +P+ GAFA Y
Sbjct: 65 ADFAGDVVAVGAEVR-DVAVGDRVCGAQNELFRPEPERGAFAAY 107
```

Get selected sequences Select all Deselect all

Database: All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF Posted date: Feb 11, 2004 6:26 AM Number of letters in database: 539,141,899 Number of sequences in database: 1,643,721

```
Lambda
   0.312 0.134
                     0.388
Gapped
Lambda
           K
   0.267
           0.0410
                     0.140
Matrix: BLOSUM62
Gap Penalties: Existence: 11, Extension: 1
Number of Hits to DB: 13,287,786
Number of Sequences: 1643721
Number of extensions: 518145
Number of successful extensions: 879
Number of sequences better than 10.0: 30
Number of HSP's better than 10.0 without gapping: 7
Number of HSP's successfully gapped in prelim test: 23
Number of HSP's that attempted gapping in prelim test: 863
Number of HSP's gapped (non-prelim): 31
length of query: 118
length of database: 539,141,899
effective HSP length: 94
effective length of query: 24
effective length of database: 384,632,125
effective search space: 9231171000
effective search space used: 9231171000
T: 11
A: 40
X1: 16 ( 7.2 bits)
X2: 38 (14.6 bits)
X3: 64 (24.7 bits)
S1: 42 (21.8 bits)
S2: 66 (30.0 bits)
```

WEST Search History

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DATE: Thursday, February 12, 2004

Hide?	<u>Set</u> <u>Name</u>	Query	<u>Hit</u> Count
	DB=PG	PB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR	
	L6	alpha-beta-unsaturated adj ketone\$2 with (reduc\$5 or break or cleav\$ or enzym\$)	2
	L5	alpha-beta-unsaturated adj ketone\$2 and nadph	1
	L4	alpha-beta-unsaturated adj ketones and nadph	1
	L3	alpha-beta-unsaturated ketones and nadph	1917
	L2	alpha-beta-unsaturated adj ketones with (reduc\$5 or break or cleav\$ or enzym\$)	2
	Ll	enone adj reductase	8

END OF SEARCH HISTORY